# Help on the Resistor Task #5

*Need some hints on how to do #5?*

1. A circuit with a total resistance of  has two parallel resistors. One of the resistors has a resistance of 4 ohms.
   1. Let x represent the resistance of the other of the other resistor, and write an equation for the total resistance of the circuit.
   2. The equation in part a contains rational expressions. If you have any complex fractions, simplify them. In your equation containing no complex fractions, what is the least common denominator of the rational expressions?
   3. Use the Multiplication Principle of Equality to obtain a new equation that has the same solutions as the equation in part a but does not contain any rational expressions. Why do you know that x ≠ 0? How does knowing that x ≠ 0 allow you to conclude that this new equation has the same solutions as, or is equivalent to, the equation from part a.
   4. Solve the new equation to find the resistance in the second resistor. Check your answer.